

عنوان مقاله:

Using Analytical Hierarchy Process (AHP) for Selecting the Best Wastewater Treatment Process (Case Study in Amol City)

محل انتشار:

سومین کنفرانس بین المللی علوم و مهندسی (سال: 1395)

تعداد صفحات اصل مقاله: 14

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خلاصه مقاله:

In current work, Analytical Hierarchy Process (AHP) method is applied to select the ideal anaerobic wastewater treatment process. This strategy can be used for complex multi-criteria choice making to get perceptible outcomes. The distinctive anaerobic procedures utilized in Iranian industrial domains included Up-flow Anaerobic Baffled Reactor (ABR), Up-flow Anaerobic Sludge Blanket (UASB), Up-flow Anaerobic Fixed Bed Reactor (UAFB), Anaerobic Lagoons (AL) and Contact process (CP). The procedures are measured based on overall circumstances in wastewater treatment plants (WWTP) in industrial domains and on expert decisions applying financial, technical, ecological, and organizational principles. The outcomes are evaluated by means of the Expert Choice Software. Eventually, the presented procedures are positioned as 1 to 5 in a gradually decreasing order of UAFB, ABR, UASB, AL and CP. The analysis presents the impacts of the parameters on variations in the outcomes which are connected for the aforementioned principles

کلمات کلیدی:

Multi-criteria decision-making, Analytical Hierarchy Process, Anaerobic Wastewater Treatment Process, Up-flow Anaerobic Sludge Blanket

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